

Features

- Low Leakage
- . High Current Capability
- · Glass Passivated Junction
- Epoxy Meets UL 94 V-0 Flammability Rating
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Lead Free Finish/RoHS Compliant (Note1) ("P"Suffix Designates Compliant. See Ordering Information)

Maximum Ratings

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C
- Typical Thermal Resistance: 45°C/W Junction to Ambient

MCC Part Number	Device Marking	Maximum Recurrent Peak Reverse Voltage	iviaximum	Maximum DC Blocking Voltage
RL257GPL	RL257GPL	1000V	700V	1000V

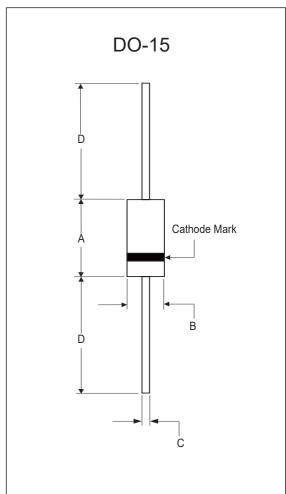
Electrical Characteristics @ 25°C Unless Otherwise Specified

Average Forward Current	I _{F(AV)}	2.5A	T _A =75°C
Forward Surge Current (Non-repetitive)	I _{FSM}	120A 240A	8.3ms,Half Sine Wave 1ms,Square Wave
Maximum Instantaneous Forward Voltage	V _F	1.1V	I _{FM} =2.5A; T _J =25°C*
Maximum DC Reverse Current At Rated DC Blocking Voltage	I _R	2.5µA 50µA	T _J =25°C; T _J =100°C
Typical Junction Capacitance	Сл	22pF	Measured at 1.0MHz, V _R =4.0V
Current Squared Time	l²t	60A ² s	1ms≤t8.3≤ms

^{*}Pulse Test: Pulse Width 300µsec, Duty Cycle 1%

Note: 1. High Temperature Solder Exemption Applied, See EU Directive Annex 7a.

2.5 Amp Rectifier 1000 Volts



DIMENSIONS							
DIM	INCHES		MM		NOTE		
DIIVI	MIN	MAX	MIN	MAX	NOIE		
Α	0.230	0.300	5.80	7.60			
В	0.104	0.140	2.60	3.60			
С	0.026	0.035	0.70	0.90			
D	1.000		25.40				



Curve Characteristics

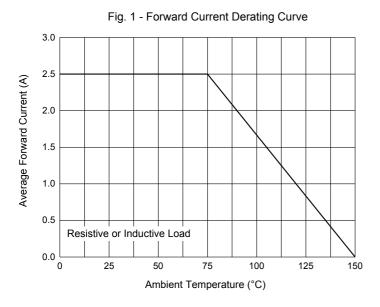


Fig. 3 - Typical Instantaneous Forward Characteristics

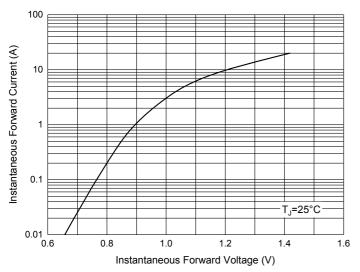
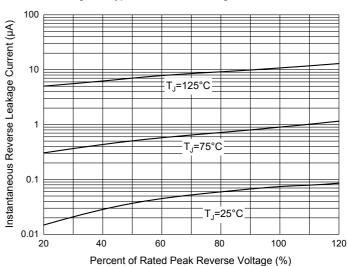


Fig. 2 - Maximum Non-Repetitive Peak Forward Surge
Current

160
140
120
100
80
Pure Non-Repetitive Peak Forward Surge
Current

160
140
120
100
100
Number of Cycles at 60 Hz

Fig. 4 - Typical Reverse Leakage Characteristics





Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel: 4Kpcs/Reel
(Part Number)-AP	Ammo Packing: 3Kpcs/Ammo Box
(Part Number)-BP	Bulk:500pcs/Box,25Kpcs/Carton

Note: Adding "-HF" Suffix For Halogen Free, eg. Part Number-TP-HF

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